

IN THE CLAIMS:

Please cancel claims 2, 3, 8, 9, 10, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23 and 24 without prejudice.

Please amend claims 1, 4, 5, 6, 7, 11, 12 and 16 as follows:

1. (Amended) A cellular system using a direct spread code division multiple access system, in which a mobile station performs soft handover with plural base stations, said mobile station comprising:

downward reception quality monitoring means for monitoring reception quality of downward signals from the plural base stations that are in the soft handover state;

base-station specifying means for comparing reception quality of downward signals from respective base stations monitored at said downward reception quality monitoring means, and for generating a base-station specify signal which specifies a base-station having the best reception quality monitoring result to maintain a signal transmission [sending a signal to specify a base station or stations to transmit according to the result of monitoring the reception quality of the plural downward signals];

multiplexing means for multiplexing the base-station specify signal into an upward signal to be sent to said plural base stations; and

reception means for performing combined reception of receive signals from said plural base stations that are in the soft handover state, and

said base stations each comprising:

demodulation means for demodulating the base-station specify signal multiplexed in the upward signal; and

transmission control means for receiving the base-station specifying signal demodulated by said demodulation means, for keeping a downward signal transmission when its own base station is specified in the base-station specify signal, and for stopping a downward signal transmission when its own base station is not specified in the base-station specify signal

A1 [controlling transmission of a downward transmit signal to a corresponding mobile station according to the demodulated base-station specify signal].

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A. (Amended) The cellular system according to claim 1, wherein said transmission control means ignores contents of said [base station performs transmission when the] base-station specify signal [is directed to its own base station or a transmission] and keeps a downward signal transmission when an error in the base-station specify signal is detected.

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B. (Amended) The cellular system according to claim 1, wherein said base station specifying means generates a base-station specify signal which specifies plural base stations each having a smaller difference of downward reception quality monitoring result than a predetermined value to maintain a signal transmission [of said mobile station specifies plural base stations when the differences of downward reception quality of all the base stations is smaller than a predetermined value].

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C. (Amended) The cellular system according to claim 1, wherein said base station specifying means generates a base-station specify signal which specifies plural base stations each having smaller reception quality monitoring result than a predetermined value to maintain a signal transmission [of said mobile station specifies plural base stations when downward reception quality of all the base stations is smaller than a predetermined value].

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D. (Amended) In a cellular system using a direct spread code division multiple access system, a mobile station used in the cellular system for performing soft handover with plural base stations, comprising:

downward reception quality monitoring means for monitoring reception quality of downward signals from the plural base stations that are in the soft handover state;

base-station specifying means for comparing reception quality of downward signals from respective base stations monitored at said downward reception quality monitoring means, and for generating a base-station specify signal which specifies a base-station having the best reception quality monitoring result to maintain a signal transmission [sending a signal to

specify a base station or stations to transmit according to the result of monitoring the reception quality of the plural downward signals];

multiplexing means for multiplexing the base-station specify signal into an upward signal to be sent to said plural base stations; and

reception means for performing combined reception of receive signals from said plural base stations that are in the soft handover state.

11. (Amended) The mobile station according to claim 7, wherein said base station specifying means generates a base-station specify signal which specifies plural base stations each having a smaller difference of reception quality monitoring result than a predetermined value to maintain a signal transmission [of said mobile station specifies a base station of the best downward reception quality out of the plural base stations and specifies other base stations having a smaller difference than a predetermined value from the base station of the best quality].

12. (Amended) The mobile station according to claim 7, wherein said base station specifying means generates a base-station specify signal which specifies plural base stations each having smaller reception quality monitoring result than a predetermined value to maintain a signal transmission [of said mobile station specifies plural base stations when downward reception quality of all the base stations is smaller than a predetermined value].

16. (Amended) A cellular system using a direct spread code division multiple access system, in which a mobile station performs soft handover with plural base stations, said mobile station comprising:

reception quality monitoring means for monitoring reception quality of downward signals from the plural base stations that are in the soft handover state and outputting a sub-signal composed of the monitoring results and signals indicative of base stations corresponding to the respective results;

multiplexing means for multiplexing the sub-signal into an upward signal to be sent to said plural base stations; and

reception means for performing combined reception of receive signals from said plural base stations that are in the soft handover state, and

said base stations each comprising:

demodulation means for demodulating the sub-signal multiplexed in the upward signal;

transmission halt signal generating means for receiving the sub-signal demodulated by said demodulation means, comparing reception quality of downward signals from respective base stations monitored at the mobile station indicated in the sub-signal, and for generating a transmission halt signal which indicates a signal transmission instruction whether transmission should be allowed or halted at its own base station in accordance with the reception quality monitoring result indicated in the sub-signal [generating a transmission halt signal indicating whether or not transmission of downward signal from its own station are to be halted in accordance with the demodulated sub-signal]; and

transmission control means for receiving the transmission halt signal from said transmission halt signal generating means, and for setting a signal transmission state of a downward signal from its own base station, whether a signal transmitting or a signal stopping, in accordance with the instruction indicated in the transmission halt signal [stopping the transmission of downward signals to said mobile station when the transmission halt signal indicates transmission halt].

Please add new claims 25-34 as follows:

25. A base station provided in a cellular system in which a plurality of mobile stations according to claim 7 are utilized, said base station comprising:

demodulation means for demodulating the base-station specify signal multiplexed in the upward signal; and

transmission control means for receiving the base-station specify signal demodulated by said demodulation means, for keeping a downward signal transmission when its own base station is specified in the base-station specify signal, and for stopping a downward signal transmission when its own base station is not specified in the base-station specify signal.

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9 26. The base station according to claim 25, wherein said transmission control means ignores contents of the base-station specify signal and keeps a downward signal transmission when an error is detected in the base-station specify signal.

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11 27. The cellular system according to claim 16, wherein said transmission halt signal generating means generates the transmission halt signal with an instruction of signal transmission stopped when the best reception quality monitoring result is not indicated for its own base station in the sub-signal, and said transmission control means sets the signal transmitting state of its own base station to a signal stopping condition when the transmission halt signal indicates the instruction of signal transmission stopped.

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12 28. The cellular system according to claim 16, wherein said transmission halt signal generating means generates the transmission halt signal with an instruction of signal transmission allowed when an error is detected in the sub-signal, and said transmission control means sets the signal transmitting state of own base station to a signal transmitting condition when the transmission halt signal indicates the instruction of signal transmission allowed.

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13 29. The cellular system according to claim 16, wherein said transmission halt signal generating means generates the transmission halt signal with an instruction of signal transmission allowed when reception quality monitoring results of plural base stations in the sub-signal each having smaller difference than a predetermined value, and said transmission control means sets the signal transmitting state of own base station to a signal transmitting when the transmission halt signal indicates the instruction of signal transmission allowed.

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14 30. The cellular system according to claim 16, wherein said transmission halt signal generating means generates the transmission halt signal with an instruction of signal transmission allowed when reception quality monitoring results of plural base stations in the sub-signal are smaller than a predetermined value, and said transmission control means sets the signal transmitting state of its own base station to a signal transmitting condition when the transmission halt signal indicates the instruction of signal transmission allowed.

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31. A base station provided in a cellular system in which a plurality mobile stations, each equipped with means for monitoring reception quality of downward signals from plural base stations with soft handover state and transmitting a sub-signal composed of the monitoring results for each base station, are utilized, said base station comprising:

demodulation means for demodulating the sub-signal;

transmission halt signal generating means for receiving the sub-signal demodulated by said demodulation means, comparing reception quality of downward signals from respective base stations monitored at the mobile station indicated in the sub-signal, and for generating a transmission halt signal which indicates a signal transmission instruction whether allowed or halted at its own base station in accordance with the reception quality monitoring result indicated in the sub-signal; and

transmission control means for receiving the transmission halt signal from said transmission halt signal generating means, and for setting a signal transmission state of a downward signal from its own base station, whether a signal transmitting or a signal stopping, in accordance with the instruction indicated in the transmission halt signal.

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32. The base station according to claim 31, wherein said transmission halt signal generating means generates the transmission halt signal with an instruction of signal transmission allowed when an error is detected in the sub-signal, and said transmission control means sets the signal transmitting state of its own base station to a signal transmitting condition when the transmission halt signal indicates the instruction of signal transmission allowed.

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33. The base station according to claim 31, wherein said transmission halt signal generating means generates the transmission halt signal with an instruction of signal transmission allowed when reception quality monitoring results of plural base stations in the sub-signal each having a smaller difference each other than a predetermined value, and said transmission control means put the signal transmitting when the transmission halt signal indicates the instruction of signal transmission allowed.